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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/707,462	11/06/2000	Gregory Sereda	03493.84406	8674

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EXAMINER

ROBINSON, GRETA LEE

ART UNIT	PAPER NUMBER
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2177

DATE MAILED: 06/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/707,462

Applicant(s)

SEREDA, GREGORY

Examiner

Greta L. Robinson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 April 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-34 is/are pending in the application.
- 4a) Of the above claim(s) 28-34 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 and 21-24 is/are rejected.
- 7) ☐ Claim(s) 18-20 and 25-27 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 November 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2. 6) ☐ Other:

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DETAILED ACTION

1. Claims 28-34 withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. Four.

Drawings

2. The drawings are objected to because they fail to show necessary textual labels of features or symbols in Figs. 4 for elements 403-433 as described in the specification. Placing a label with a written description would give the viewer necessary detail to fully understand this element at a glance. A *descriptive* textual label for *each numbered element* in these figures would be needed to fully and better understand these figures without substantial analysis of the detailed specification. Any structural detail that is of sufficient importance to be described should be shown in the drawing. Optionally, applicant may wish to include a table next to the present figure to fulfill this requirement. See 37 CFR 1.83. 37 CFR 1.84(n)(o) is recited below:

"(n) Symbols. Graphical drawing symbols may be used for conventional elements when appropriate. The elements for which such symbols and labeled representations are used must be adequately identified in the specification. Known devices should be illustrated by symbols which have a universally recognized conventional meaning and are generally accepted in the art. Other symbols which are not universally recognized may be used, subject to approval by the Office, if they are not likely to be confused with existing conventional symbols, and if they are readily identifiable.

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(o) Legends. Suitable descriptive legends may be used, or may be required by the Examiner, where necessary for understanding of the drawing, subject to approval by the Office. They should contain as few words as possible."

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: note figure 1 reference 103_0 , 103_1 , 103_{1A} , and 103_{655535} . A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "107" has been used to designate both CRC-16 value for index_0 and index_{65535} . A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference characters "105_a" and "107" have both been used to designate the CRC-16 value for index₀ in figure 1. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-17 and 21-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Jain *A comparison of Hashing Schemes for Address Lookup in Computer Networks*.

Regarding claim 1, **Jain** teaches a method of cataloging information in a database [note section I. Introduction and section II. Hashing Concepts, page 1570], comprising;

determining a key for referencing a record of information stored in a database [see page 1570-1571];

determining a record address for the record in the database [figure 1, page 1570-1571 section III.];

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determining a cyclical redundancy check value for the key [note page 1571-1572 hashing using CRC]; and

storing the record address in an index at a position corresponding to at least a portion of the cyclical redundancy check value [note page 1571-1572 hashing using CRC, figure 1].

8. Regarding claims 2-4, wherein the cyclical redundancy check value is a CRC-CCITT cyclical redundancy check value ... CRC-32 cyclical redundancy check value [note: 1571 section III., also figures 2 and 3].

9. Regarding claims 5-13, determining a second cyclical redundancy check value ... determining a third cyclical redundancy check value for the key [note: page 1571].

10. Regarding claim 14, further including storing at least a second portion of the cyclical redundancy check value in the index with the record address [note: page 1570, figure 1].

11. The limitation of claims 15-17 have been addressed above in claims 2-3; therefore they are rejected under the same rationale.

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12. Regarding claim 21, determining a key ... determining a cyclical redundancy check value for the key ... obtaining the record from the database using the retrieved record address [see: page 1570 note sections I. through IV.].

Allowable Subject Matter

13. Claims 18-20 and 25-27 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bruffey et al. US Patent 4,945,475

Kevner US Patent 5,956,509

Lomet et al. US Patent 5,440,732

Brassell et al. US Patent 6,553,372 B1

Harlan US Patent 6,076,084

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Greta Robinson whose telephone number is (703)308-7565. The examiner can normally be reached Monday through Friday from 9:30 AM to 6:00 PM. If any attempts to

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reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene, can be reached at (703) 305-9790.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703)746-7239, (for formal communications; please mark "EXPEDITED
PROCEDURE")

Or: (703)746-5657, (for informal or draft communications, please label "PROPOSED"
or "DRAFT").

Hand delivered responses should be brought to Crystal Park II, 2021 Crystal Drive,
Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application should be
directed to the Group receptionist whose telephone number is (703)305-9600.


GRETA ROBINSON
PRIMARY EXAMINER

Greta Robinson

Primary Examiner

June 14, 2003